

**ISSA Risk Summary Card**

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# **International Space Station Alpha Program**

**10 February 1995**

**National Aeronautics and Space  
Administration  
International Space Station Alpha Program  
Johnson Space Center  
Houston, Texas**



REVISION AND HISTORY PAGE

REV.	DESCRIPTION	PUB. DATE
-	Initial Release	05-08-95

## **PREFACE**

The contents of this document are intended to be consistent with the tasks and products to be prepared by Program participants. The ISSA Risk Summary Card may be implemented on new ISSA contractual and internal activities and may be included in any existing contracts through contract changes. This document is under the control of the Program Risk Management Integrated Product Team (IPT), and any changes or revisions shall be approved by the Manager, Program Risk Management.

**INTERNATIONAL SPACE STATION ALPHA PROGRAM**

**ISSA Risk Summary Card**

**February 10, 1995**

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**INTERNATIONAL SPACE STATION ALPHA PROGRAM  
ISSA Risk Summary Card**

**LIST OF CHANGES**

**February 10, 1995**

All changes to paragraphs, tables, and figures in this document are shown below:

<b>SSCBD</b>	<b>ENTRY DATE</b>	<b>CHANGE</b>
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**PARAGRAPH(S)**

**TABLE(S)**

**FIGURE(S)**

**APPENDIX(ES)**

**ADDENDA**

## TABLE OF CONTENT

PARAGRAPH	PAGE
1.0 INTRODUCTION.....	1-1

## **1.0 INTRODUCTION**

Attached is the ISSA Risk Summary Card.



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**DEFINITIONS:**

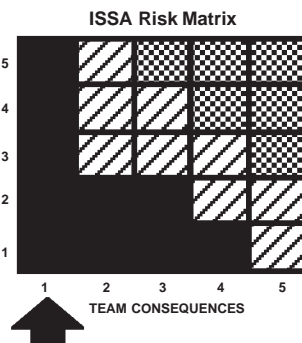
**RISK MANAGEMENT:** An organized, systematic decision-making process that efficiently identifies risks, assesses or analyzes risks, and effectively reduces or eliminates risks to achieving program goals.

**RISK:** An undesirable situation or circumstance which has both a probability of occurring and a potential consequence to program success.

What is the likelihood the situation or circumstance will happen?	
Level	Your team's current process...
5	... cannot prevent this event, no alternate approaches or processes are available.
4	... cannot prevent this event, but a different approach or process might.
3	... may prevent this event, but additional actions will be required.
2	... is usually sufficient to prevent this type of event.
1	... is sufficient to prevent this event.

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**LEGEND**

<input checked="" type="checkbox"/> High -	Implement new process(es) or change baseline plan(s)
<input checked="" type="checkbox"/> Med -	Aggressively manage; consider alternative process
<input type="checkbox"/> Low -	Monitor

Level	1	2	3	4	5
1					
2					
3					
4					
5					

Technical includes everything that is not cost and schedule: e.g., safety, operations, programmatic.

**QUESTIONS ABOUT RISK MANAGEMENT?**

Call:  
Your Team's Risk Management team member or  
William C. Panter/NASA  
713-244-7755 or  
Thomas G. Gambling/Boeing  
713-244-8208



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What could keep your team from achieving your objectives?

What objective is at risk?

**Methods:**

- Expert interview
- Trend Analysis of metrics
- Systematic analysis of WBS levels
- Comparison of goals and plans

**Key areas to assess:**

- Requirements
- Technology
- Management
- Engineering
- Manufacturing
- Supportability (Logistics & Maint.)
- Operations
- Safety
- Programmatic or Political

**Information Sources:**

- Metrics
- Historical data
- Resources
- Suppliers
- Plans
- Proposed Changes
- Test results

Determine the root cause

Quantify Your Risks:

- Determine likelihood of event
- Determine team's consequences
- Technical (Performance, Operations, Safety, Programmatic)
- Cost
- Schedule
- Plot risk on ISSA Risk Matrix
- Enter risk & analysis data into Risk Data Management System (RDMS)

What can you do about a risk?

- Conduct trade study
- Identify best solution
- Develop mitigation plans
- Reduce likelihood of occurrence
- Reduce severity of consequences
- Redesign
- Develop prototypes
- Modify requirements
- Acquire resources
- Augment test or analysis
- Re-negotiate
- Develop contingency plans
- Accept the risk
- Recommend elevating risk to higher team
- Enter abatement plans into RDMS

- Status risks monthly
- Update data in RDMS
- Update matrix

Implement abatement plans

**Review and Elevation of Risks:**

- Review lower teams' risks
- Agree or disagree with assessments
- Elevate risks to your team as appropriate
- Identify and assess additional risks for your team
- Combine risks as appropriate
- Plot your team's risks on the ISSA Risk Matrix
- Recommend risks for elevation to higher team

Questions to Consider:

Do risk statements fit within your Team's Team Execution Plan (TEP) description of responsibility, authority, accountability? If not, recommend risk for elevation.  
Have you considered all sources for identifying risks?  
Do other teams need to know these risks?  
Are the mitigation plans adequate?  
Do they address the sources of risk?  
Has the next level of management reviewed these risks?